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*Allygus irroratus*, Say.  
*Scaphoideus immistus*, Say.  
*Thamnotettix aurora*, Uhl.  
     sp. indet.  
*Agallia siccifolia*, Uhl.  
*Bythoscopus* sp., indet.

*Gypona octolineata*, Say.  
     *columba*, Fitch, var.  
     sp., indet.  
*Jassus seminudus*, Say.  
*Erythroneura*, two species.  
*Cælidia subbifasciata*, Say.

MANHATTAN, KAS., November 21, 1884.

## ON SOME SALT MARSH COLEOPTERA.

BY WARREN KNAUS, SALINA, KANSAS.

The salt marshes of Kansas are characterized by an insect fauna that is, usually, peculiarly their own. They are of especial interest to the entomologist, for here he finds forms closely allied to those taken on the ocean shore—the Atlantic, or Gulf of Mexico. The coleopterist who has made marine forms a special study, can with reasonable accuracy tell what species will be found on the saline deposits of the Mississippi valley. As an illustration of this, Mr. Henry Ulke, of Washington, D. C., writes me that he predicted to a correspondent that *Cicindela togata*, then taken on the coast near Corpus Christi, Texas, would be found on the salt flats in the vicinity of Lincoln, Neb.; a few weeks afterward his prediction was verified.

Each season for the last four years, I have collected *Cicindelidæ* on a salt marsh near Fredonia, Wilson county. In the summer of 1880 I visited this locality for the purpose of procuring specimens of the saline incrustations, to be analyzed. While walking across the bare surface of a lateral offshoot of the marsh, a tiger beetle ran from before me; a stroke of my hat disabled it and made its capture easy. This specimen, when identified, proved to be *Cicindela circumpecta* Laf., a comparatively rare species, and never before, I believe, taken so far east.

In 1881 I visited this locality the last week in June, and found the same beetle in abundance. A large number of specimens were taken, and they did not disappear until the last week in July.

The season of 1882 they were observed about the same time—*i. e.*, from the last week in June until the last week in July.

The season of 1883 was about two weeks later than the preceding season, and I took, in company with my friend Mr. S. C. Mason, sixty specimens on the afternoon of August 6th.

The present season this handsome beetle was very abundant; one hundred and thirty-five specimens being taken July 12th in two hours' work with the use of a single net. Ten days later many of them had disappeared, only one hundred specimens being taken in an afternoon's work.

Two varieties occur in almost equal abundance with the typical form—one with blue elytra, and one with bronze elytra and thorax. This beetle is found more abundant near the water's edge, where the bare saline ground is moist and warm, and in sheltered offshoots, where the sun shines the hottest.

In the same locality *Cicindela punctulata* Fabr. is also found mingled with *Cicindela circumpecta*, but their occurrence is rare in comparison with the latter species.

*Cicindela cuprascens* Lec., is given by Professor E. A. Popenoe in his "Preliminary List of Kansas Coleoptera," as occurring at Lawrence, Topeka, Hutchinson, and in Rooks county, on "sand bars and banks of streams." In August, 1882, Mr. S. C. Mason found this species in great abundance on a sand bar at the mouth of a small stream which emptied

into the Solomon river below the "Great Spirit spring." He easily took a number of specimens without the aid of a net. It is very probable that one or two closely-allied species also frequented this congenial saline haunt.

While collecting *Cicindela circumpecta* on the salt marsh at Fredonia this season, I took a single specimen of *Cicindela cuprascens*, and the only one I have ever observed in southeast Kansas.

In the summer of 1883 Mr. A. W. Jones, of Salina, Kansas, gave me two specimens of *Rhyssenus*. Afterward I took a few specimens by sifting leaves and decaying vegetation. Mr. Ulke, to whom a specimen was submitted for determination, says: "This is a veritable salt insect; a similar one (*Rhyssenus scaber*) was discovered by me on the ocean shore in Maryland." This species has not been described as yet, and is probably peculiar to saline localities.

A thorough investigation of the coleopterous inhabitants of the saline localities in Kansas will undoubtedly reveal many species not known to the State, and intimately connected with the saline and maritime forms of the southern and eastern coasts of the Atlantic ocean and the Gulf of Mexico.

#### LISTS OF LEPIDOPTERA AND COLEOPTERA COLLECTED IN NEW MEXICO BY THE KANSAS UNIVERSITY SCIENTIFIC EXPEDITIONS OF 1883 AND 1884.

BY PROF. F. H. SNOW, OF THE UNIVERSITY OF KANSAS.

The following lists may be considered as supplementary to the lists published in vol. VIII of these Transactions, and include only those species which were not embraced in those lists. In July and August, 1883, our collections were made in the same locality as 1882—the Gallinas cañon, near the Las Vegas Hot Springs. My assistants were Messrs. L. L. Dyche, W. H. Brown, W. C. Stevens, and W. A. Snow. In August, 1884, the same individuals composed the party, which was divided into two sections. The first section made collections in the same locality as in the two preceding years, while the second section visited the southwestern corner of New Mexico, and encamped about twelve miles north of Silver City, on the Walnut creek, some three miles west of the divide which separates the Atlantic and the Pacific slopes. Here were found a considerable number of forms previously known to occur only in Arizona and old Mexico. Acknowledgments are due to Mr. W. J. Howard, of Silver City, for many favors; to Dr. Geo. H. Horn, for determinations of Coleoptera; and to Messrs. Henry Edwards, B. Neumoegeen and J. B. Smith, for similar favors in the Lepidoptera. The letter appended to each species gives the locality of collection—G. and W. indicating, respectively, Gallinas cañon and Walnut creek cañon.

##### LIST OF LEPIDOPTERA.

*Papilio philenor* L. W.  
*Limenitis ursula* Fab. var. *Arizonensis*  
 Edw. W.  
*Thecla halesus* Cram. W.  
*Thecla læta* Edw. W.  
*Lycæna alce* Edw. W.  
*Lycæna marina* Edw. W.  
*Lycæna neglecta* Edw. W.  
*Amblyscirtes ænus* Edw. W.  
*Pholisora*, n. sp. W.  
*Thanaos pacuvius* Lintn. W.

*Pamphila lunus* Edw. W.  
*Eudamus moschus* Edw. W.  
*Eudamus cellus* Bd.-Lec. W.  
*Hemaris diffinis* Boisd. W.  
*Everyx* sp. (faded). W.  
*Sphinx elsa* Strk. Silver City.  
*Alypia Grotei* Bois. (*Alypiodes flavin-*  
*guis* Gr.) W. and G.  
*Copidryas Gloveri* G. and R. W.  
*Hypoprepia cadaverosa* Strk. W.  
*Crocota ostenta* Hy. Edw. W.